(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/020633 A1

(51) International Patent Classification[7]: H04R 25/00, G10L 21/02, H04R 3/00

(21) International Application Number: PCT/EP2004/009283

(22) International Filing Date: 19 August 2004 (19.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03388055.0 21 August 2003 (21.08.2003) EP

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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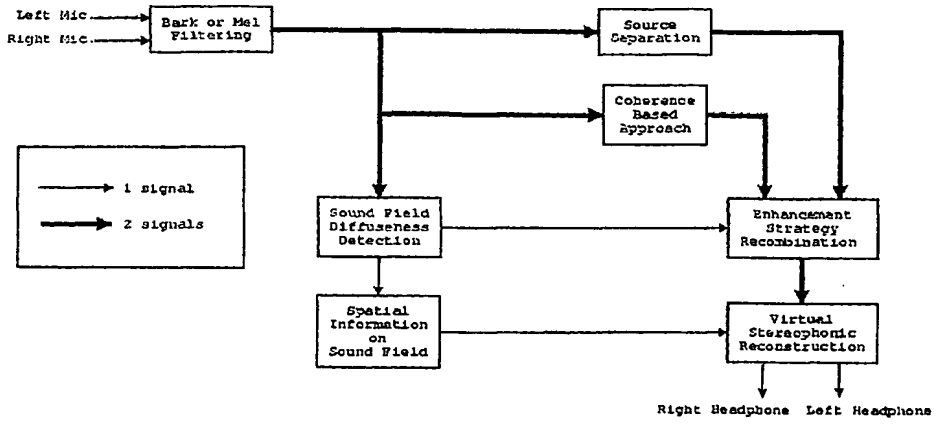
(54) Title: METHOD FOR PROCESSING AUDIO-SIGNALS



(57) Abstract: The invention regards a method for processing audio-signals whereby audio signals are captured at two spaced apart locations and subject to a transformation in the perceptual domain (Bar or Mel), whereupon: a) a (blind or supervised) source separation process is performed to give a first estimate of the wanted signal parts and the noise parts of the microphone signals and b) a coherence based separation process is performed to give a second estimate of the wanted signal parts and the noise parts of the microphone signals, and where further a sound field diffuseness detection is performed on the at least two signals,whereby further the sound field diffuseness detections is used to mix the output from the blind source separation and the coherence based separation process in order to achieve the best possible signal. The transfer functions calculated from the source separation are used to reconstruct a virtual stereophonic sound field in restore the spatial information about the source position in the enhanced signals.

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Published:
— *with international search report*

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